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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,530	09/15/2003	Chi-Tang Ho	RU-0177-CON 3585		
20583 75	590 10/05/2006		EXAMINER		
JONES DAY			WARE, DEBORAH K		
222 EAST 41ST ST NEW YORK, NY 10017			ART UNIT	PAPER NUMBER	
			1651		
			DATE MAILED: 10/05/200	DATE MAILED: 10/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/663,530	HO ET AL	
Office Action Summary	Examiner	Art Unit	
·	Deborah K. Ware	1651	_
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 21 Ac 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro		
Disposition of Claims	2		
4) ☐ Claim(s) 11,12 and 15-36 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11-12 and 15-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119	· ·		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 21, 2006 has been entered.

Claims 11-12 and 15-36 are presented for reconsideration on the merits.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under

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37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 11-12 and 15-36 remain rejected under 35 U.S.C. 103(a) as being unpatentable over WO 99/43314 (Shaikenov et al.) previously cited on a PTO-892 Form, in view of Zhou et al, also cited of record.

Claims are drawn to methods for preventing or treating cancer in an animal comprising administering to an animal an effective amount of the composition of an extract of Inula britannica, and are further drawn to 1-O-acetylbritannilactone or 1,6-O,O-diacetylbritannilactone as being comprised by the extract.

Shaikenov et al. teach a composition comprising an extract of *Inula Britannica* or compounds isolated therefrom comprising sesquiterpene lactone. Note 19, lines 15-21 and page 23, lines 12-25. Further, a method for preventing or treating cancer in an animal comprising administering to an animal an effective amount of the composition is also disclosed. See the abstract and page 23, lines 20-27. See the abstract and page 23, lines 20-27. At page 60, line 23, human cancer is disclosed to be treated.

Zhou et al. clearly teach 1-O-acetylbritannilactone or 1,6-O,O-diacetylbritannilactone which are isolated from *I. britannica*. See the abstract.

The claim differs from the teaching of the cited patent in that the specific compounds as noted above are not disclosed.

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It would have been obvious to one of ordinary skill in the art at the time the claimed invention was filed to provide for a methods as disclosed by the cited patent comprising 1-O-acetylbritannilactone or 1,6-O,O-diacetylbritannilactone as disclosed by Zhou et al. because these selected compounds are also disclosed to be isolatable from *I. Britannica* extracts, note page 249, col. 1, all lines. Clearly one of skill would have been motivated to select for these two lactones as well since sesquiterpene lactones from I. Britannica are clearly disclosed by the primary reference to be comprised in compositions formed from plant extracts of I. Britannica. To select for various concentrations and amounts thereof is well within the purview of an ordinary artisan. In the absence of persuasive evidence to the contrary the claim is deemed prima facie obvious over the cited prior art combination. The two selected lactones are well known and to select for one or the other of these two lactones is well within the purview of an ordinary artisan, especially since they are disclosed to possess cytotoxic activity.

Response to Arguments

The argument filed August 21, 2006, has been received and entered but not found persuasive. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does

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not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Note that the courts have found that "The discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition" (i.e. extract of Inula britannica) "patentably new to the discoverer." Atlas Powder Co. v. Ireco Inc., 190 F.3d 1342, 1347, 51 USPQ2d 1943, 1947 (Fed. Cir. 1999).

Thus the claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable. In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977).

The knowledge available at the time the claimed invention was filed is that extracts of Inula britannica can be administered to humans for treating cancer. These compounds include 1-O-acetylbritannilactone and 1,6-O,O-diacetylbritannilactone. Therefore, one of skill would have expected successful results based upon these teachings of the cited prior art. Further, one of skill would have been motivated to administer these compounds to humans for treating cancer. The art teaches or suggests the claimed subject matter.

With respect to the argument that Shaikenov et al do not have the same structure is noted, however, Zhou et al clearly teach the compounds and Shaikenov et al teach similarly related compounds which provide the same result. Thus, it would have been obvious to substitute one for the other. Therefore, in response to applicant's arguments

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against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). The prior art combination clearly shows that administering the extract containing these ingredients for treating cancer is known or at least suggested to provide successful results. One of skill would have been motivated to optimize amounts for sufficient treatment of cancer as disclosed by the WO patent. The claims remain prima facie obvious.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 11-12 and 15-36 remain rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 4-6 of U.S.

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Patent No. 6,627,623. Although the conflicting claims are not identical, they are not patentably distinct from each other because the identical compounds are found in the Inula Britannica extract and used in a method of treating cancer.

The claims of the instant case would have been obvious over the patented claims based on the similar scope of the claimed subject matter. One of skill would have been motivated to administer the compound for a method of remedying cancer. Claims are therefore, obvious over the patented claims.

Response to Arguments

The argument filed August 21, 2006, has been received and entered. The upcoming consideration by Applicants upon notification of allowable subject matter is noted, however, since no claims are deemed allowable then the rejection is sustained.

All claims fail to be patentably distinguishable over the state of the art discussed above and cited on the enclosed PTO-892 and/or PTO-1449. Therefore, the claims are properly rejected.

The remaining references listed on the enclosed PTO-892 and/or PTO-1449 are cited to further show the state of the art.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah K. Ware whose telephone number is 571-272-0924. The examiner can normally be reached on 9:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0927. The fax phone numbers for the organization is/571-273-8300.

DEPORANK WARE PATENT EXAMINER

Deborah K. Ware September 30, 2006